

SEQUENCE LISTING

<110> SANSON, ALAIN  
 OCHSENBEIN, FRANCOIS  
 DOLLE, FREDERIC

<120> PEPTIDES WITH AFFINITY FOR A PHOSPHOLIPID AND USES

<130> 263864US0XPCT

<140> US 10/518,383

<141> 2004-12-29

<150> PCT/FR03/02025

<151> 2003-06-30

<150> FR 02 08202

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<160> 20

<170> PatentIn version 3.3

<210> 1

<211> 75

<212> PRT

<213> Artificial Sequence

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Gly	Phe	Asp	Glu	Arg	Ala	Asp	Val	Glu	Thr	Leu	Arg	Lys	Ala	Met	Lys
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Gly	Leu	Gly	Thr	Asp	Glu	Glu	Ser	Ile	Leu	Thr	Leu	Leu	Thr	Ser	Arg
			20					25					30		

Ser	Asn	Ala	Gln	Arg	Gln	Glu	Ile	Ser	Ala	Ala	Tyr	Lys	Thr	Leu	Phe
		35					40					45			

Gly	Arg	Asp	Leu	Leu	Asp	Asp	Leu	Lys	Ser	Glu	Leu	Thr	Gly	Lys	Phe
		50				55						60			

Glu	Lys	Leu	Val	Val	Ala	Leu	Leu	Lys	Pro	Ser
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<210> 2

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Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Arg Lys Ala Ile Lys  
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Gly Met Gly Val Asp Glu Asp Thr Ile Val Asn Ile Leu Thr Asn Arg  
20 25 30

Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr  
35 40 45

Lys Arg Glu Leu Ala Ser Asp Leu Lys Ser Glu Leu Ser Gly His Leu  
50 55 60

Glu Arg Val Ile Leu Gly Leu Leu Lys Thr Ser  
65 70 75

<210> 3

<211> 75

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Asp Phe Ser Pro Ser Val Asp Ala Glu Ala Ile Arg Lys Ala Ile Lys  
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Gly Ile Gly Thr Asp Glu Asp Met Leu Ile Ser Ile Leu Thr Glu Arg  
20 25 30

Ser Asn Ala Gln Arg Gln Leu Ile Val Lys Glu Tyr Gln Ala Ala Tyr  
35 40 45

Gly Arg Glu Leu Lys Asp Asp Leu Lys Ser Glu Leu Ser Gly His Phe  
50 55 60

Glu Arg Leu Met Val Ala Leu Val Thr Pro Ser  
65 70 75

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Gly Phe Asn Ala Met Glu Asp Ala Gln Thr Leu Arg Lys Ala Met Lys  
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Gly Leu Gly Thr Asp Glu Asp Ala Ile Ile Ser Val Leu Ala Tyr Arg  
 20 25 30

Asn Thr Ala Gln Arg Gln Glu Ile Arg Thr Ala Tyr Lys Ser Thr Ile  
 35 40 45

Gly Arg Asp Leu Ile Asp Asp Leu Lys Ser Glu Leu Ser Gly Asn Phe  
 50 55 60

Glu Arg Val Ile Val Gly Met Met Thr Pro Ser  
 65 70 75

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Gly Phe Asp Pro Asn Gln Asp Ala Glu Ala Leu Arg Thr Ala Met Lys  
 1 5 10 15

Gly Phe Gly Ser Asp Glu Glu Ala Ile Leu Asp Ile Ile Thr Ser Arg  
 20 25 30

Ser Asn Arg Gln Arg Gln Glu Val Cys Gln Ser Tyr Lys Ser Leu Tyr  
 35 40 45

Gly Arg Asp Leu Ile Ala Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe  
 50 55 60

Glu Arg Leu Ile Val Gly Leu Met Arg Pro Ser  
 65 70 75

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Gly Phe Asn Pro Asp Ala Asp Ala Lys Ala Leu Arg Lys Ala Met Lys  
 1 5 10 15

Gly Leu Gly Thr Asp Glu Asp Thr Ile Ile Asp Ile Ile Thr His Arg  
 20 25 30

Ser Asn Val Gln Arg Gln Gln Ile Arg Gln Thr Phe Lys Ser His Phe  
 35 40 45

Gly Arg Asp Leu Met Thr Asp Leu Lys Ser Glu Ile Ser Gly Asp Leu  
 50 55 60

Glu Arg Leu Ile Leu Gly Leu Met Met Pro Ser  
 65 70 75

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Pro Gly Asp Ala Ile Arg Asp Ala Glu Ile Leu Arg Lys Ala Met Lys  
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Gly Phe Gly Thr Asp Glu Gln Ala Ile Val Asp Val Val Ala Asn Arg  
 20 25 30

Ser Asn Asp Gln Arg Gln Lys Ile Lys Ala Ala Phe Lys Thr Ser Tyr  
 35 40 45

Gly Arg Asp Leu Ile Lys Asp Leu Lys Ser Glu Leu Ser Gly Asn Met  
 50 55 60

Glu Arg Leu Ile Leu Ala Leu Phe Met Pro Ser  
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			20					25					30		
Ser	Asn	Thr	Gln	Arg	Gln	Thr	Ile	Ala	Lys	Ser	Phe	Lys	Ala	Gln	Phe
		35					40					45			
Gly	Arg	Asp	Leu	Thr	Glu	Asp	Leu	Lys	Ser	Glu	Leu	Ser	Gly	Lys	Leu
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Glu	Arg	Leu	Ile	Val	Ala	Leu	Met	Tyr	Pro	Ser					
65					70					75					

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Gly	Phe	Gly	Thr	Asp	Glu	Gln	Ala	Ile	Ile	Asp	Cys	Leu	Gly	Ser	Arg
			20					25					30		
Ser	Asn	Lys	Gln	Arg	Gln	Gln	Ile	Leu	Leu	Ser	Phe	Lys	Thr	Ala	Tyr
		35					40					45			
Gly	Arg	Asp	Leu	Ile	Lys	Asp	Leu	Lys	Ser	Glu	Leu	Ser	Gly	Asn	Phe
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Glu	Lys	Thr	Ile	Leu	Ala	Leu	Met	Lys	Thr	Ser					
65					70					75					

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1				5					10					15	

Gly Met Gly Thr Asn Glu Ala Ala Ile Ile Glu Ile Leu Ser Gly Arg  
 20 25 30

Thr Ser Asp Glu Arg Gln Gln Ile Lys Gln Lys Tyr Lys Ala Thr Tyr  
 35 40 45

Gly Arg Glu Leu Glu Glu Asp Leu Lys Ser Glu Leu Ser Gly Asn Phe  
 50 55 60

Glu Lys Thr Ala Leu Ala Leu Leu Asp Arg Ser  
 65 70 75

<210> 11  
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 <223> Xaa = Leu, Met or Trp

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 <223> Xaa = Thr or Lys

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 <223> Xaa = Ser or Lys

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 <222> (48)..(48)  
 <223> Xaa = Phe or Tyr

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 <223> Xaa = Thr or Glu

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 <223> Xaa can be any naturally occurring amino acid

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Gly Ser Gly Cys Gly Phe Asp Glu Arg Ala Asp Val Glu Thr Leu Arg  
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Lys Ala Met Lys Gly Xaa Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu  
 20 25 30

Leu Xaa Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Xaa Ala Ala Xaa  
 35 40 45

Lys Xaa Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Xaa Leu  
 50 55 60

Thr Gly Lys Phe Xaa Lys Xaa Val Val Ala Leu Leu Lys Pro Ser  
 65 70 75

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Gly Ser Pro Gly Phe Asp Glu Arg Ala Asp Val Glu Thr Leu Arg Lys  
 1 5 10 15

Ala Met Lys Gly Leu Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu  
 20 25 30

Thr Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Ser Ala Ala Tyr Lys  
 35 40 45

Thr Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr  
 50 55 60

Gly Lys Phe Glu Lys Leu Val Val Ala Leu Leu Lys Pro Ser  
 65 70 75

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<223> Xaa = Thr or Lys

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<223> Xaa = Ser or Lys

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<223> Xaa = Phe or Tyr

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<223> Xaa = Thr or Glu

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<223> Xaa = Glu or Lys

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<223> Xaa = Glu or Leu

<400> 13

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1 5 10 15

Thr Leu Arg Lys Ala Met Lys Gly Xaa Gly Thr Asp Glu Glu Ser Ile  
20 25 30

Leu Thr Leu Leu Xaa Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Xaa  
35 40 45

Ala Ala Xaa Lys Xaa Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys



50

55

60

Ser Xaa Leu Thr Gly Lys Phe Xaa Lys Xaa Val Val Ala Leu Leu Lys  
 65 70 75 80

Pro Ser Arg

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 <223> Xaa = Tyr or Lys

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 <223> Xaa = Glu or Leu

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Gly Ser Gly Cys Gly Thr Glu Thr Asp Phe Pro Gly Phe Asp Glu Arg  
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Ala Asp Val Glu Thr Leu Arg Lys Ala Met Lys Gly Xaa Gly Thr Asp  
 20 25 30

Glu Glu Ser Ile Leu Thr Leu Leu Xaa Ser Arg Ser Asn Ala Gln Arg  
 35 40 45

Gln Glu Ile Xaa Ala Ala Xaa Lys Xaa Leu Phe Gly Arg Asp Leu Leu  
 50 55 60

Asp Asp Leu Lys Ser Xaa Leu Thr Gly Lys Phe Xaa Lys Xaa Val Val  
 65 70 75 80

Ala Leu Leu Lys Pro Ser Arg  
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 <223> Xaa = chosen from Ala, Cys, Gly, Ile, Leu, Met, Phe, Trp, Tyr and Val

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 <223> Xaa = chosen, independently of one another, from natural amino acids or derivatives thereof, such that at least 50% of them are polar residues chosen from Arg, Asn, Asp, Cys, Gln, Glu, Gly, His, Lys, Orn, Pro, Ser, Thr and Tyr

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 <223> Xaa = chosen, independently of one another, from natural amino acids or derivatives thereof, such that at least 50% of them are polar residues chosen from Arg, Asn, Asp, Cys, Gln, Glu, Gly, His, Lys, Orn, Pro, Ser, Thr and Tyr

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<400> 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Xaa Xaa Xaa Lys  
 1 5 10 15

Gly Xaa Gly Thr Xaa Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Arg Xaa Xaa Xaa Xaa Asp Xaa Lys Ser Xaa Leu Xaa Xaa Xaa Xaa  
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 65 70 75

<210> 16  
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 acids or derivatives thereof, such that at least 50% of them are  
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 acids or derivatives thereof, such that at least 50% of them are  
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 His, Lys, Orn, Pro, Ser, Thr and Tyr

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 acids or derivatives thereof, such that at least 50% of them are  
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His, Lys, Orn, Pro, Ser, Thr and Tyr

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